



SEQUENCE LISTING

<110> Hahn, Klaus M.
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Muthyala, Rajeev
Kraynov, Vadim
Burton, Dennis R.
Chamberlain, Chester
The Scripps Research Institute et al.

<120> Labeled Peptides, Proteins and Antibodies and Processes and Intermediates
Useful for their Preparation

<130> 1361.007US1

<140> US 09/839,577

<141> 2001-04-20

<150> US 60/279,302

<151> 2001-03-28

<150> PCT/US00/26821

<151> 2000-09-29

<150> US 60/218,113

<151> 2000-07-13

<160> 15

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<210> 1

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<212> PRT

<213> Homo sapiens

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Glu	His	Thr	Ile	His	Val	Gly	Phe	Asp	Ala	Cys	Thr	Gly	Glu	Phe	Thr
			20					25					30		
Gly	Met	Pro	Glu	Gln	Trp	Ala	Arg	Leu	Leu	Gln	Thr				
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<212> PRT

<213> Artificial Sequence

<220>

<223> A synthetic peptide.

<400> 2

Ala	Lys	Ala	Ala	Arg	Ala	Ala	Ala	Ala	Lys	Ala	Ala	Arg	Ala	Cys	Ala
1				5					10					15	

<210> 3

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> A synthetic peptide.

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<221> SITE
 <222> 3
 <223> Xaa = SAOD = alpha-Boc-beta[N-(2-Chlorobenzylloxycarbonyl)-N-Methylaminoxy
 Acetyl]-alpha,beta-Diaminopropionic Acid [Boc-2-Cl-Z-(SA)Dapa-OH].

<221> SITE
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 <223> Xaa = MPAL = The C-terminal mercaptopropionyl-leucine group generated by
 cleavage of a peptide from TAMPAL resin.

<400> 3
 Leu Tyr Xaa Ala Gly Xaa
 1 5

<210> 4
 <211> 5
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<220>
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 Cys Arg Ala Asn Lys
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<221> SITE
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 Acetyl]-alpha,beta-Diaminopropionic Acid [Boc-2-Cl-Z-(SA)Dapa-OH]

<400> 5
 Leu Tyr Xaa Ala Gly Cys Arg Ala Asn Lys
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<400> 6
 Cys Glu Tyr Arg Ile Asp Arg Val Arg Leu Phe Val Asp Lys Leu Asp
 1 5 10 15
 Asn Ile Ala Gln Val Pro Arg Val Gly Ala Ala His His His His His
 20 25 30
 His

<210> 7
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<212> PRT
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<400> 7
Cys Glu Tyr Arg Ile Asp Arg Val Arg Leu Phe Val Asp Lys Leu Asp
1 5 10 15
Asn Ile Ala Gln Val Pro Arg Val Gly Ala Ala His His His His His
20 25 30
His

<210> 8
<211> 28
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Acetyl]-alpha,beta-Diaminopropionic Acid [Boc-2-Cl-Z-(SA)Dapa-OH]

<221> SITE
<222> 28
<223> Xaa = MPAL = The C-terminal mercaptopropionyl-leucine group generated by
cleavage of a peptide from TAMPAL resin.

<400> 8
Xaa Lys Lys Lys Glu Lys Glu Arg Pro Glu Ile Ser Leu Pro Ser Asp
1 5 10 15
Phe Glu His Thr Ile His Val Gly Phe Asp Ala Xaa
20 25

<210> 9
<211> 18
<212> PRT
<213> Homo sapiens

<400> 9
Cys Thr Gly Glu Phe Thr Gly Met Pro Glu Gln Trp Ala Arg Leu Leu
1 5 10 15
Gln Thr

<210> 10
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<221> SITE
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Acetyl]-alpha,beta-Diaminopropionic Acid [Boc-2-Cl-Z-(SA)Dapa-OH]

<400> 10
 Leu Tyr Xaa Ala Gly Cys Arg Ala Asn Lys
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<221> SITE
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 Acetyl]-alpha,beta-Diaminopropionic Acid [Boc-2-Cl-Z-(SA)Dapa-OH]

<400> 11
 Xaa Lys Lys Lys Glu Lys Glu Arg Pro Glu Ile Ser Leu Pro Ser Asp
 1 5 10 15
 Phe Glu His Thr Ile His Val Gly Phe Asp Ala Cys Thr Gly Glu Phe
 20 25 30
 Thr Gly Met Pro Glu Gln Trp Ala Arg Leu Leu Gln Thr
 35 40 45

<210> 12
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 Acetyl]-alpha,beta-Diaminopropionic Acid [Boc-2-Cl-Z-(SA)Dapa-OH]

<400> 12
 Leu Tyr Xaa Ala Gly Cys Glu Tyr Arg Ile Asp Arg Val Arg Leu Phe
 1 5 10 15
 Val Asp Lys Leu Asp Asn Ile Ala Gln Val Pro Arg Val Gly Ala Ala
 20 25 30
 His His His His His His
 35

<210> 13
 <211> 120
 <212> PRT
 <213> Homo sapiens

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 20 25 30
 Ile Ser Lys Ala Asp Ile Gly Ala Pro Ser Gly Phe Lys His Val Ser
 35 40 45
 His Val Gly Trp Asp Pro Gln Asn Gly Phe Asp Val Asn Asn Leu Asp
 50 55 60
 Pro Asp Leu Arg Ser Leu Phe Ser Arg Ala Gly Ile Ser Glu Ala Gln
 65 70 75 80

Leu Thr Asp Ala Glu Thr Ser Lys Leu Ile Tyr Asp Phe Ile Glu Asp
85 90 95
Gln Gly Gly Leu Glu Ala Val Arg Gln Glu Met Arg Arg Gln Glu Pro
100 105 110
Leu Pro Pro Pro Pro Pro Pro Ser
115 120

<210> 14
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<213> Homo sapiens

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20 25 30
Gln Arg Leu Phe Glu Met Leu Gly Arg Lys Cys Leu Thr Leu Ala Thr
35 40 45
Ala Val Val Gln Leu Tyr Leu Ala Leu Pro Pro Gly Ala Glu His Trp
50 55 60
Thr Lys Glu His Cys Gly Ala Val Cys Phe Val Lys Asp Asn Pro Gln
65 70 75 80
Lys Ser Tyr Phe Ile Arg Leu Tyr Gly Leu Gln Ala Gly Arg Leu Leu
85 90 95
Trp Glu Gln Glu Leu Tyr Ser Gln Leu Val Tyr Ser Thr Pro Thr Pro
100 105 110
Phe Phe His Thr Phe Ala Gly Asp Asp Cys Gln Ala Gly Leu Asn Phe
115 120 125
Ala Asp Glu Asp Glu Ala Gln Ala Phe Arg Ala Leu Val Gln Glu Lys
130 135 140
Ile Gln Lys Arg Asn Gln Arg Gln Ser Gly Asp Arg Arg Gln Leu Pro
145 150 155 160
Pro Pro Pro Thr Pro Ala Asn Glu Glu Arg Arg Gly Gly Leu Pro Pro
165 170 175
Leu Pro Leu His Pro Gly Gly Asp Gln Gly Gly Pro Pro Val Gly Pro
180 185 190
Leu Ser Leu Gly Leu Ala Thr Val Asp Ile Gln Asn Pro Asp Ile Thr
195 200 205
Ser Ser Arg Tyr Arg Gly Leu Pro Ala Pro Gly Pro Ser Pro Ala Asp
210 215 220
Lys Lys Arg Ser Gly Lys Lys Lys Ile Ser Lys Ala Asp Ile Gly Ala
225 230 235 240
Pro Ser Gly Phe Lys His Val Ser His Val Gly Trp Asp Pro Gln Asn
245 250 255
Gly Phe Asp Val Asn Asn Leu Asp Pro Asp Leu Arg Ser Leu Phe Ser
260 265 270
Arg Ala Gly Ile Ser Glu Ala Gln Leu Thr Asp Ala Glu Thr Ser Lys
275 280 285
Leu Ile Tyr Asp Phe Ile Glu Asp Gln Gly Gly Leu Glu Ala Val Arg
290 295 300
Gln Glu Met Arg Arg Gln Glu Pro Leu Pro Pro Pro Pro Pro Ser
305 310 315 320
Arg Gly Gly Asn Gln Leu Pro Arg Pro Pro Ile Val Gly Gly Asn Lys
325 330 335
Gly Arg Ser Gly Pro Leu Pro Pro Val Pro Leu Gly Ile Ala Pro Pro
340 345 350
Pro Pro Thr Pro Arg Gly Pro Pro Pro Gly Arg Gly Gly Pro Pro
355 360 365
Pro Pro Pro Pro Pro Ala Thr Gly Arg Ser Gly Pro Leu Pro Pro Pro
370 375 380

Pro Pro Gly Ala Gly Gly Pro Pro Met Pro Pro Pro Pro Pro Pro Pro
 385 390 395 400
 Pro Pro Pro Pro Ser Ser Gly Asn Gly Pro Ala Pro Pro Pro Leu Pro
 405 410 415
 Pro Ala Leu Val Pro Ala Gly Gly Leu Ala Pro Gly Gly Gly Arg Gly
 420 425 430
 Ala Leu Leu Asp Gln Ile Arg Gln Gly Ile Gln Leu Asn Lys Thr Pro
 435 440 445
 Gly Ala Pro Glu Ser Ser Ala Leu Gln Pro Pro Pro Gln Ser Ser Glu
 450 455 460
 Gly Leu Val Gly Ala Leu Met His Val Met Gln Lys Arg Ser Arg Ala
 465 470 475 480
 Ile His Ser Ser Asp Glu Gly Glu Asp Gln Ala Gly Asp Glu Asp Glu
 485 490 495
 Asp Asp Glu Trp Asp Asp
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<210> 15
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> A synthetic peptide.

<400> 15
 Cys Glu Met Ala Gln Leu Glu Lys Glu Val Gln Ala Leu Glu Ser Glu
 1 5 10 15
 Val Ala Ser Leu Glu Lys Glu Val Gln Ala Leu Glu Lys Glu Val Ala
 20 25 30
 Gln Arg